Paul Grigoras

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Education

'13 – present **PhD in Computing**, *Imperial College London.*
Custom Computing for Sparse Algebra - efficient architectures for sparse linear and nonlinear algebra on FPGAs.

'09 – '13 **MEng Computing**, *Imperial College London*, *First Class Honours.*
Masters course on Software Engineering and Computer Architecture.
Awards Engineering Dean's List (all years), SET Awards Finalist, ARM Project Prize, Deutsche Bank Prize, Morgan Stanley IT Prize

'05 – '09 **Romanian Baccalaureate**, *"Mihai Viteazul" College*, Bucharest.
High school level course with focus on Mathematics and Computer Science.
Grades *97%* Mathematics, *100%* Physics, *97.9%* Overall

Experience

'13 – Present **Postgraduate Teaching Assistant**, *Imperial College London.*
Held weekly tutorials, marked and discussed assessed exercises (Mathematical Methods, Operating Systems, Custom Computing, Advanced Programming)

2013 **Site Reliability Engineering Intern**, *Google*, London.
3 months Worked on an application for monitoring production systems

2012 **Compiler Engineering Intern**, *Maxeler Technologies*, London.
6 months Worked on high-level tools for dataflow programming on FPGAs:
MaxCompiler - extended static timing analysis and resource usage annotation
MaxDebug - added support for debugging devices on shared compute nodes
MaxIDE - developed a templating system, user facing C and FPGA tutorials

2011 **Undergraduate Teaching Assistant**, *Imperial College London.*
2 years Held weekly tutorials, marked and discussed unassessed exercises (Logic and Discrete Maths)

2011 **Research Placement**, *Custom Computing Group, Imperial College.*
1 year Worked on accelerating a compute intensive imaging application using FPGAs

2011 **Summer Analyst in Technology**, *Morgan Stanley*, London.
3 months Developed a web application for client account management (Java, ExtJS)

Skills

Programming	Preferred: Java, C, C++, Python Exposure: JavaScript, Haskell, Bash
Tools	Linux, Emacs, Eclipse, IntelliJ, Ant, Ivy, Maven, Autotools, CMake, Make, Git, Subversion, Perforce, Jira, Trac, TeamCity, Jenkins
Languages	Romanian (Native), English (IELTS 8/9), French (Fluent)

Interests

Karate	1 dan black belt in Shotokan Karate Silver and Bronze at the ITKF European Championships, Prague '05
Robotics	Worked on a line-follower robot for Eurobot '11 Worked on a robo-chess robot for Arcelor Mittal '11 robotics contest

Projects and Contests

'10, '12, '13	ACM ICPC, North-Western Europe Regional
'13	`fastcc` – aspect oriented compiler for dataflow designs (C++, MaxJ)
'12	`ProTrade` – in-play tennis trading platform (Java, SWT)
'11	`SocialCoder` – online programming platform (Java, Spring, JSF, JPA)

Publications

P. Grigoras, M. Tottenham, X. Niu, J. G. Coutinho, and W. Luk, "Elastic Management of Reconfigurable Accelerators," in *IEEE International Symposium on Parallel and Distributed Processing with Applications*. IEEE, 2014.

G. C. Chow, P. Grigoras, P. Burovskiy, and W. Luk, "An Efficient Sparse Conjugate Gradient Solver Using a Beneš Permutation Network," in *24th International Conference on Field Programmable Logic and Applications*. IEEE, 2014.

J. G. F. Coutinho, O. Pell, E. O'Neill, P. Sanders, J. McGlone, P. Grigoras, W. Luk, and C. Ragusa, "HARNESS Project: Managing Heterogeneous Computing Resources for a Cloud Platform," in *Reconfigurable Computing: Architectures, Tools, and Applications*. Springer, 2014.

P. Grigoras, X. Niu, J. G. Coutinho, W. Luk, J. Bower, and O. Pell, "Aspect Driven Compilation for Dataflow Designs," in *24th International Conference on Application-Specific Systems, Architectures and Processors*. IEEE, 2013.